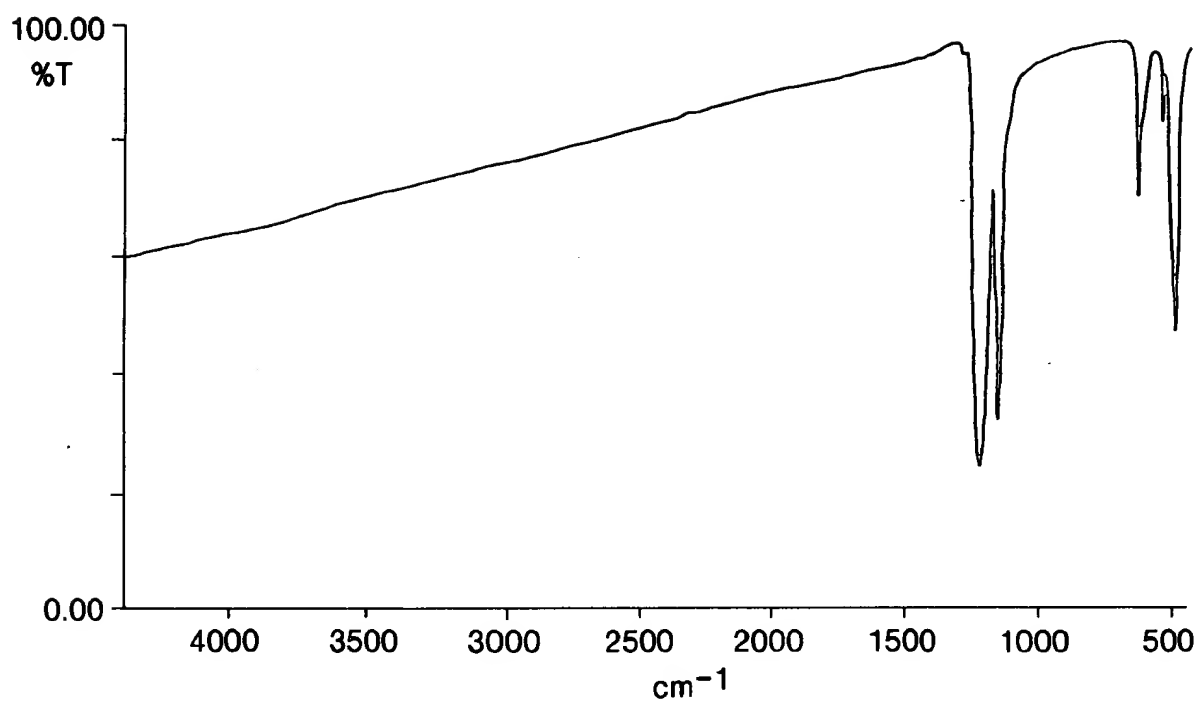


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PTFE 3M SAMPLE CARD TRANSMISSION SPECTRUM (TOP)  
AND ABSORBANCE SPECTRUM (BOTTOM)

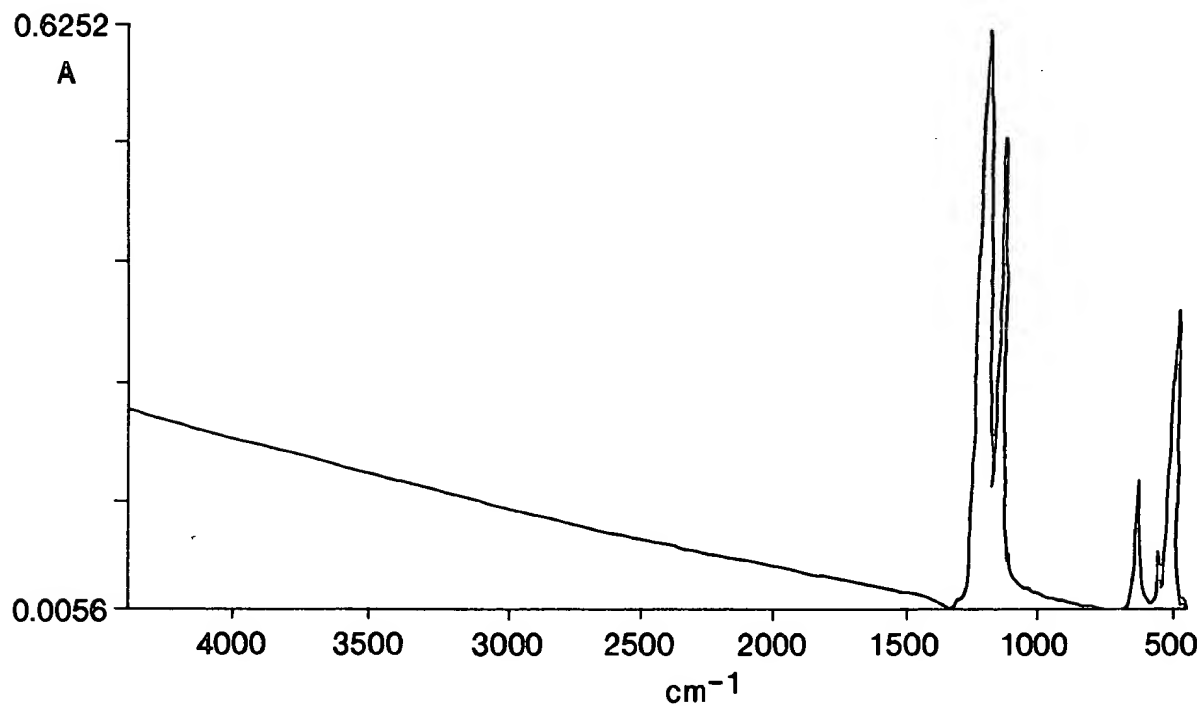
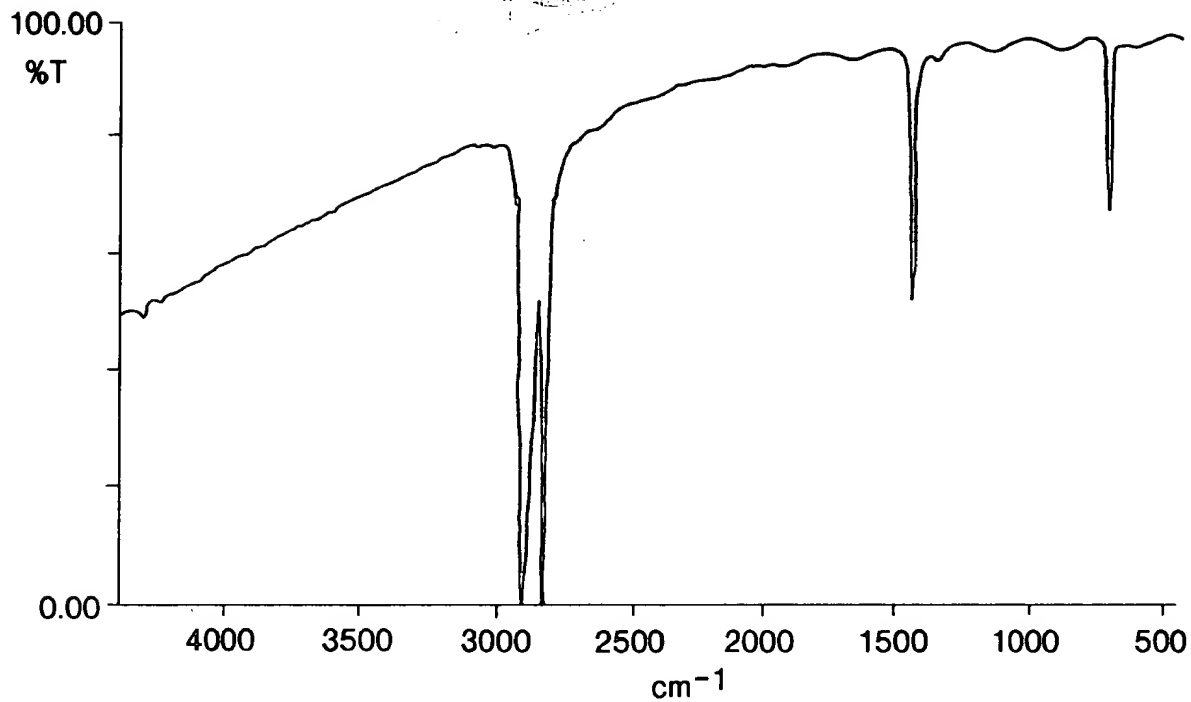


FIG. 1



POLYETHYLENE 3M SAMPLE CARD TRANSMISSION SPECTRUM (TOP)  
AND ABSORBANCE SPECTRUM (BOTTOM)

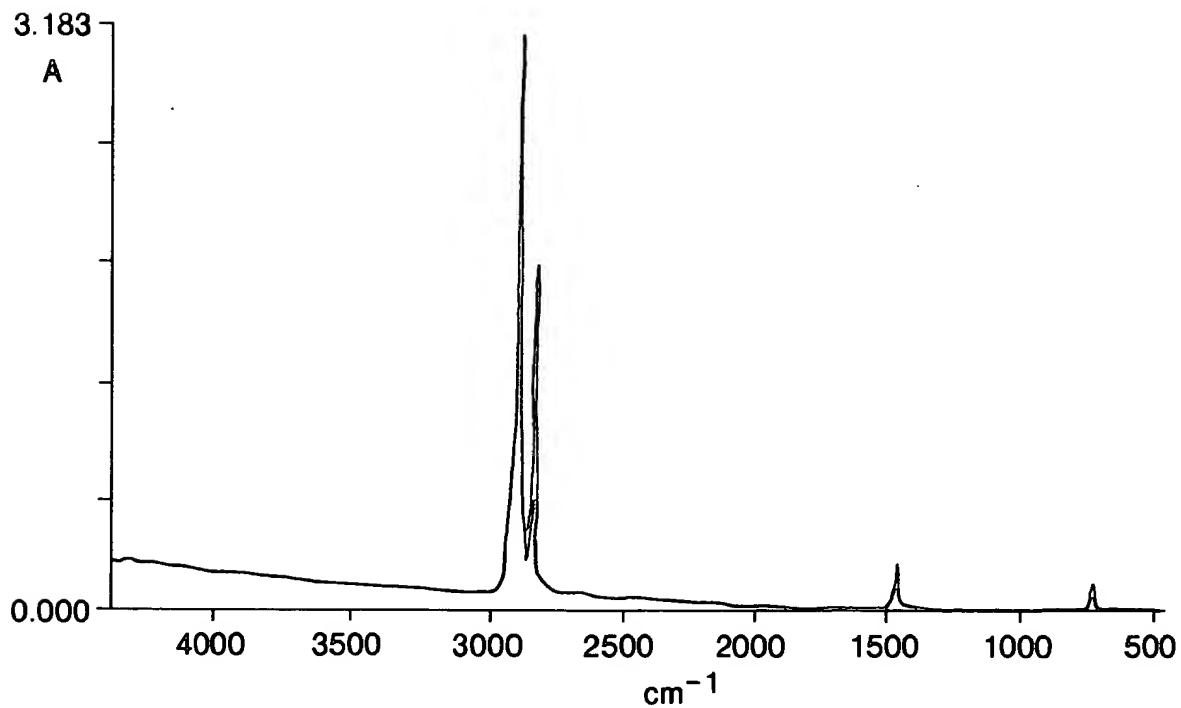


FIG. 2

The infrared spectrum of polyacetylene shows a broad absorption band around 3300 cm⁻¹, characteristic of the C-H stretching vibration. A sharp, intense peak is observed at approximately 2100 cm⁻¹, corresponding to the C≡C stretching vibration. The spectrum also shows several other absorption bands in the fingerprint region, particularly around 1600, 1450, and 1380 cm⁻¹.

FIG. 3A

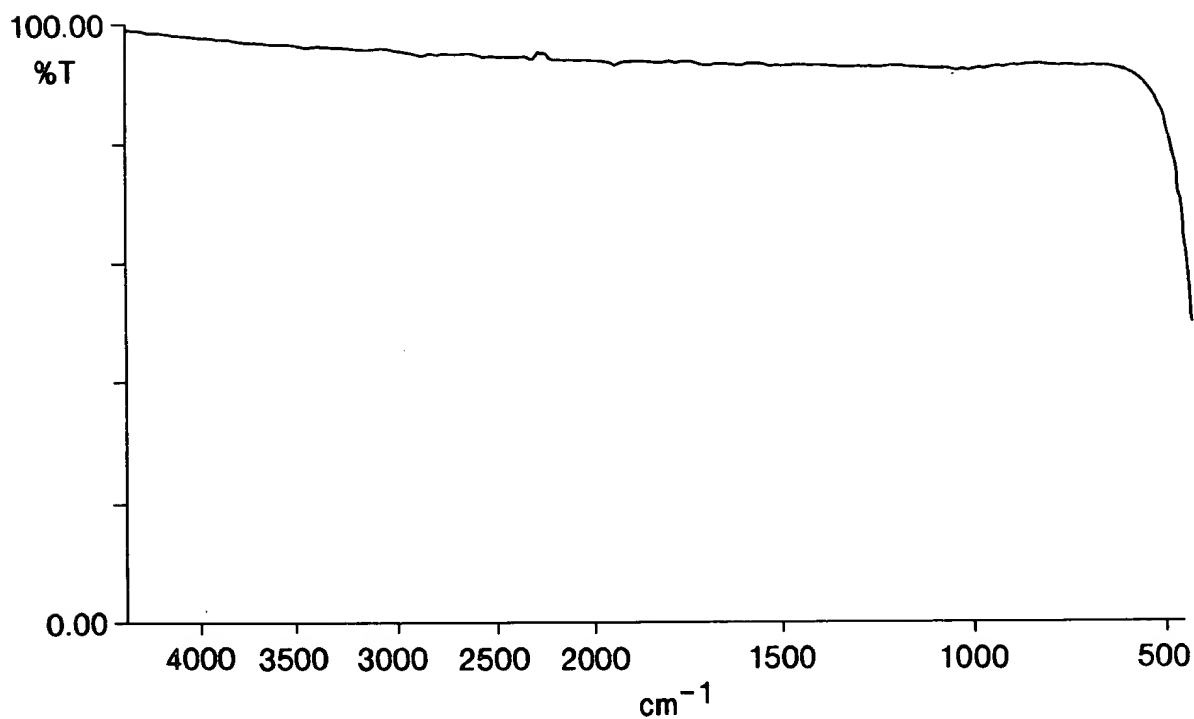
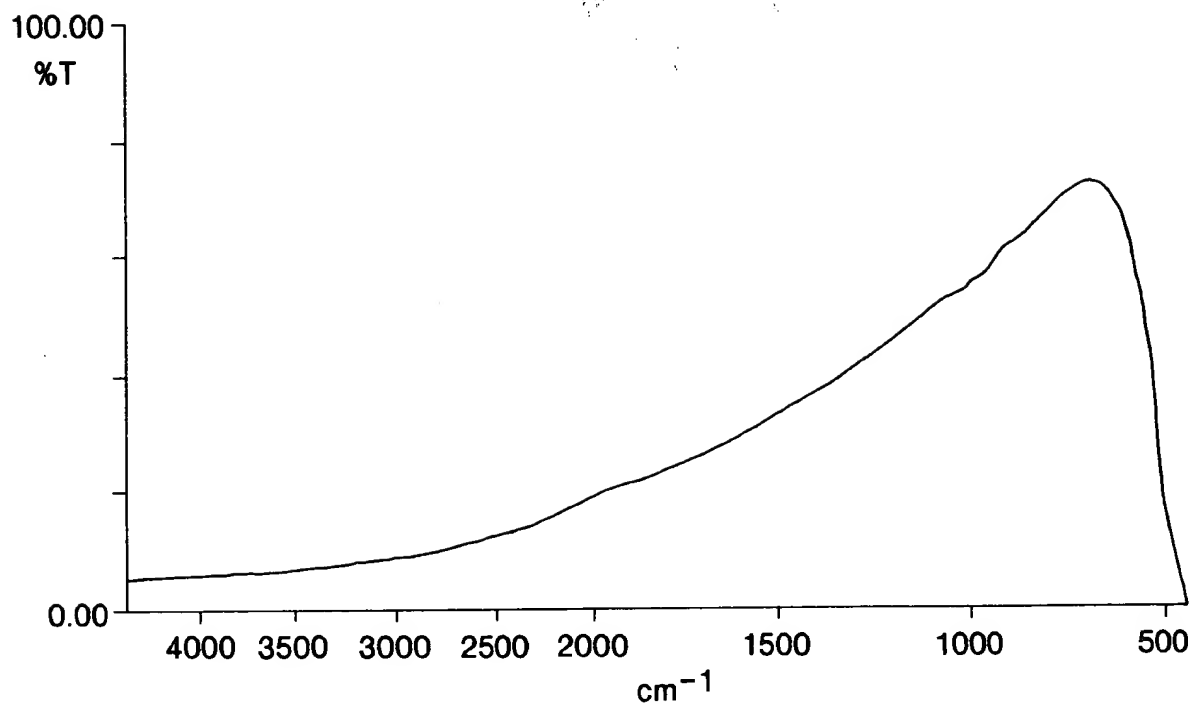


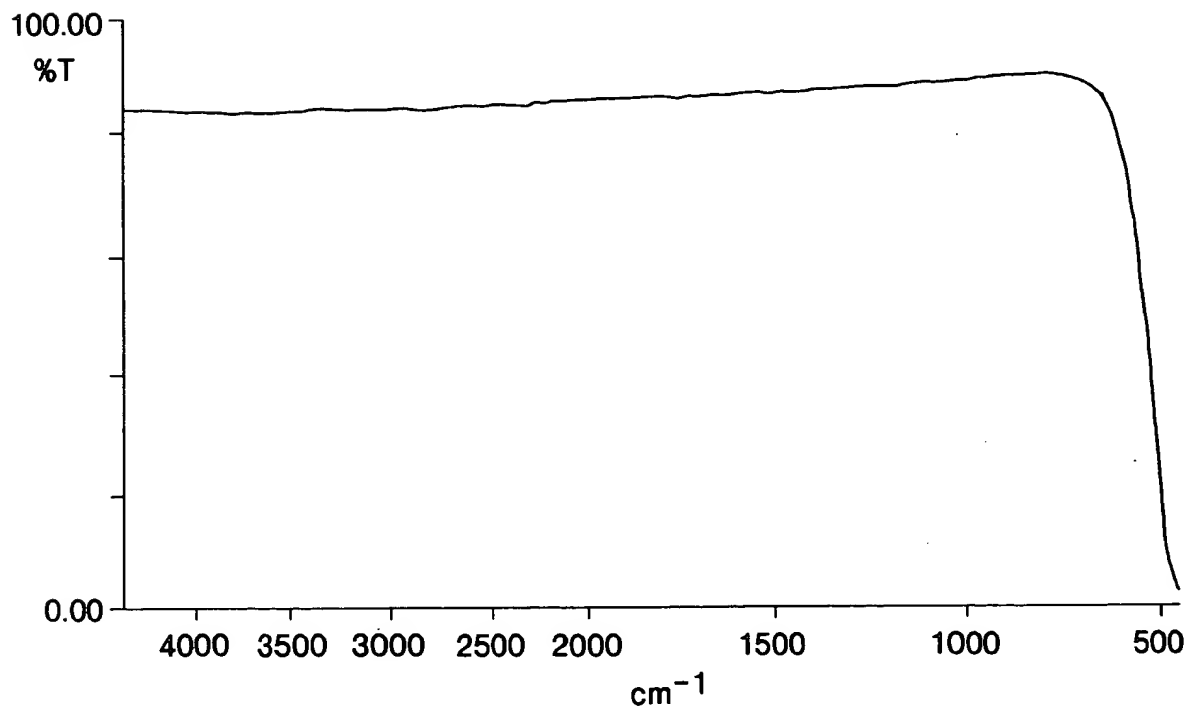
FIG. 3B

000764-0340



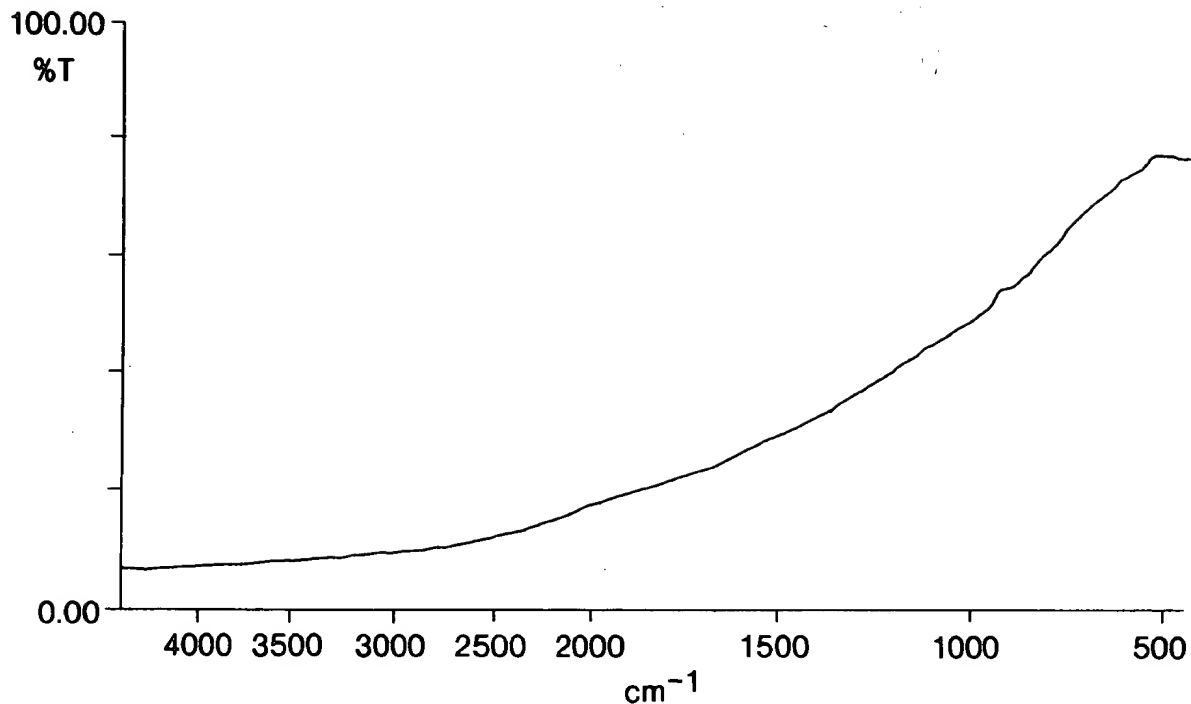
SPECTRUM NACL CRYSTAL BLANK, UNPOLISHED

FIG. 4A



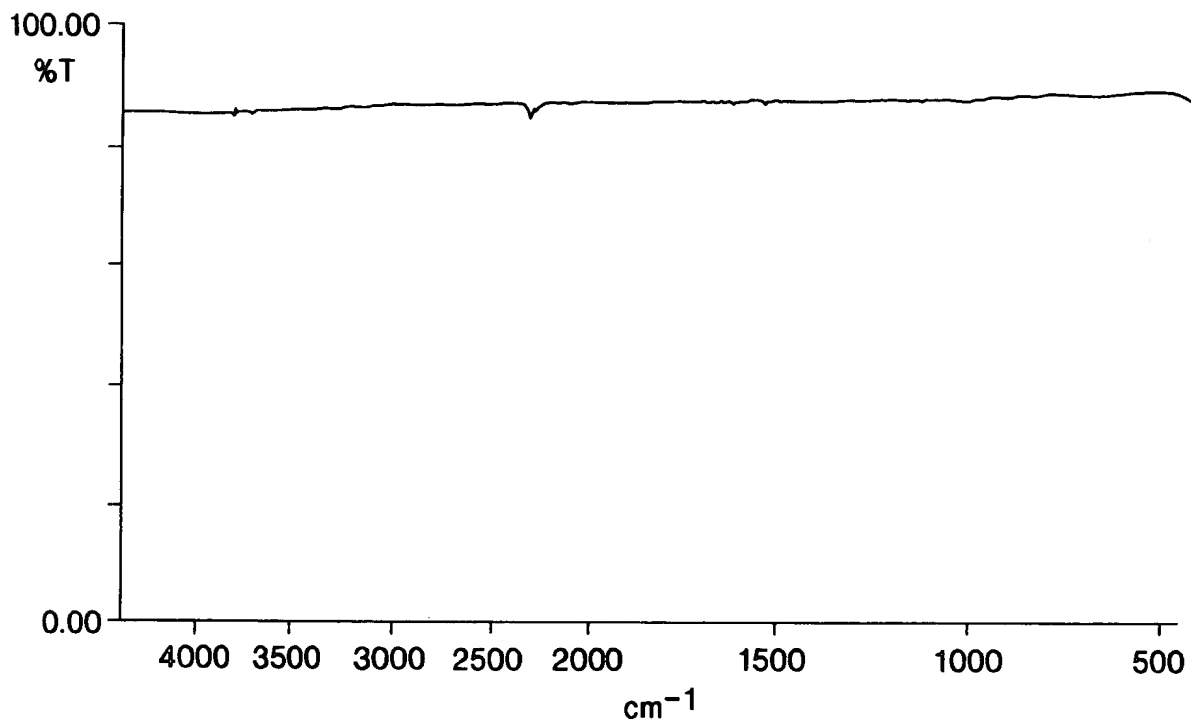
SPECTRUM NACL CRYSTAL BLANK, WATER POLISHED

FIG. 4B



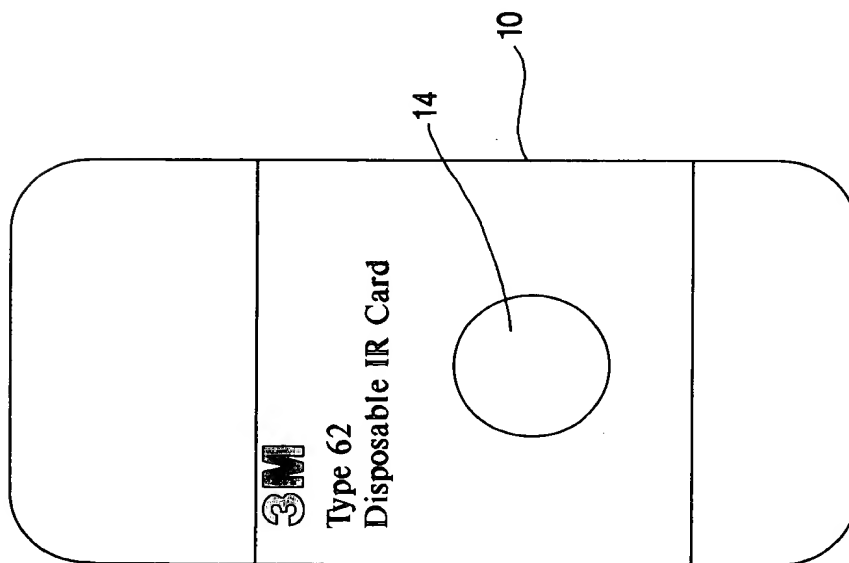
SPECTRUM KBR CRYSTAL BLANK, UNPOLISHED

FIG. 5A



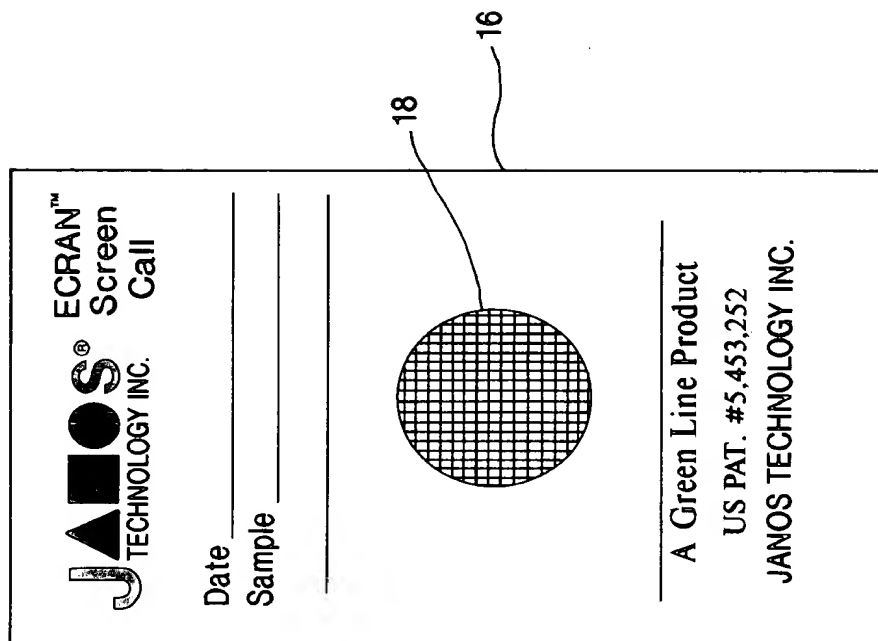
SPECTRUM KBR CRYSTAL BLANK, WATER POLISHED

FIG. 5B



3M SAMPLE CARD---PTFE

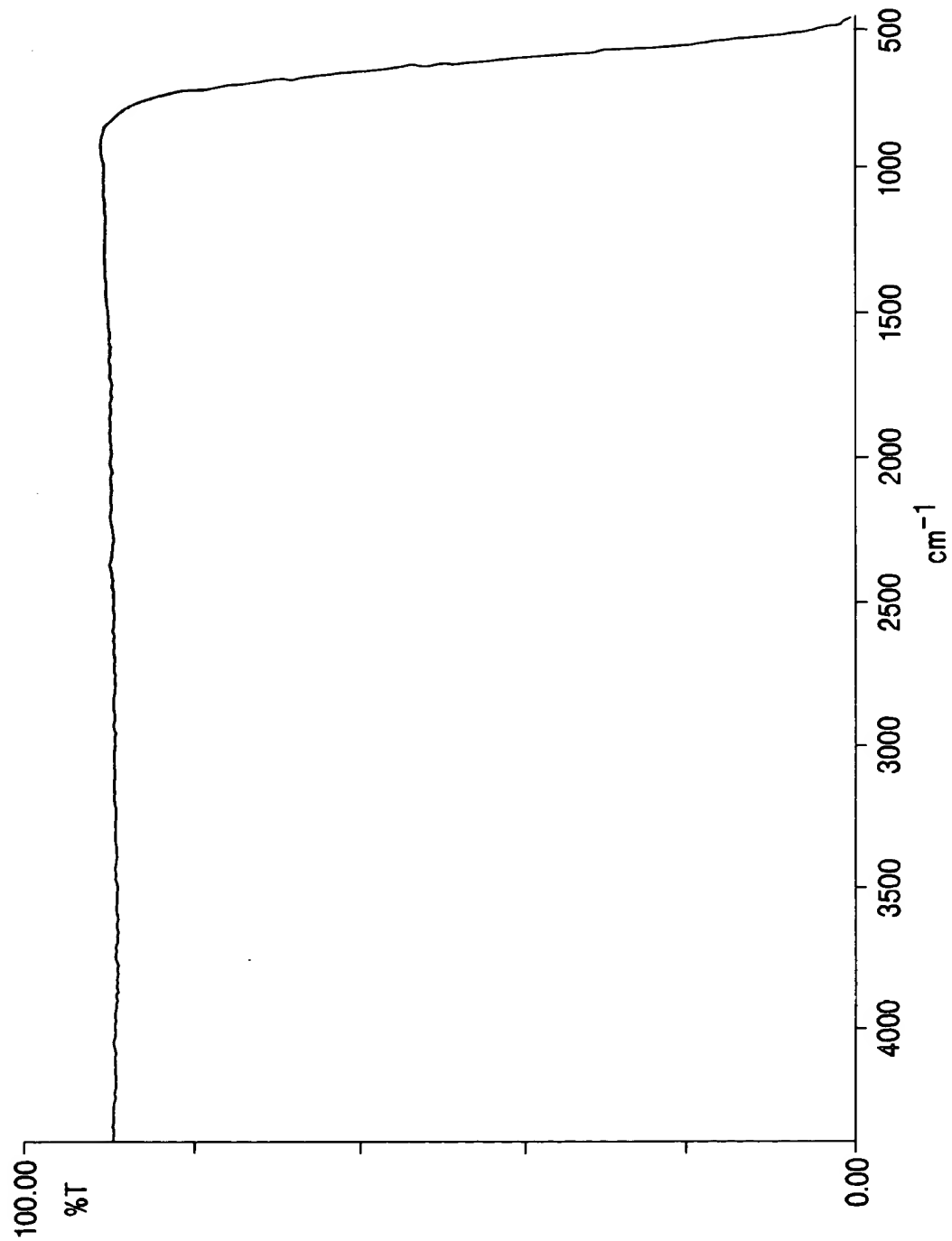
FIG. 6



JANOS SCREEN CARD

FIG. 7

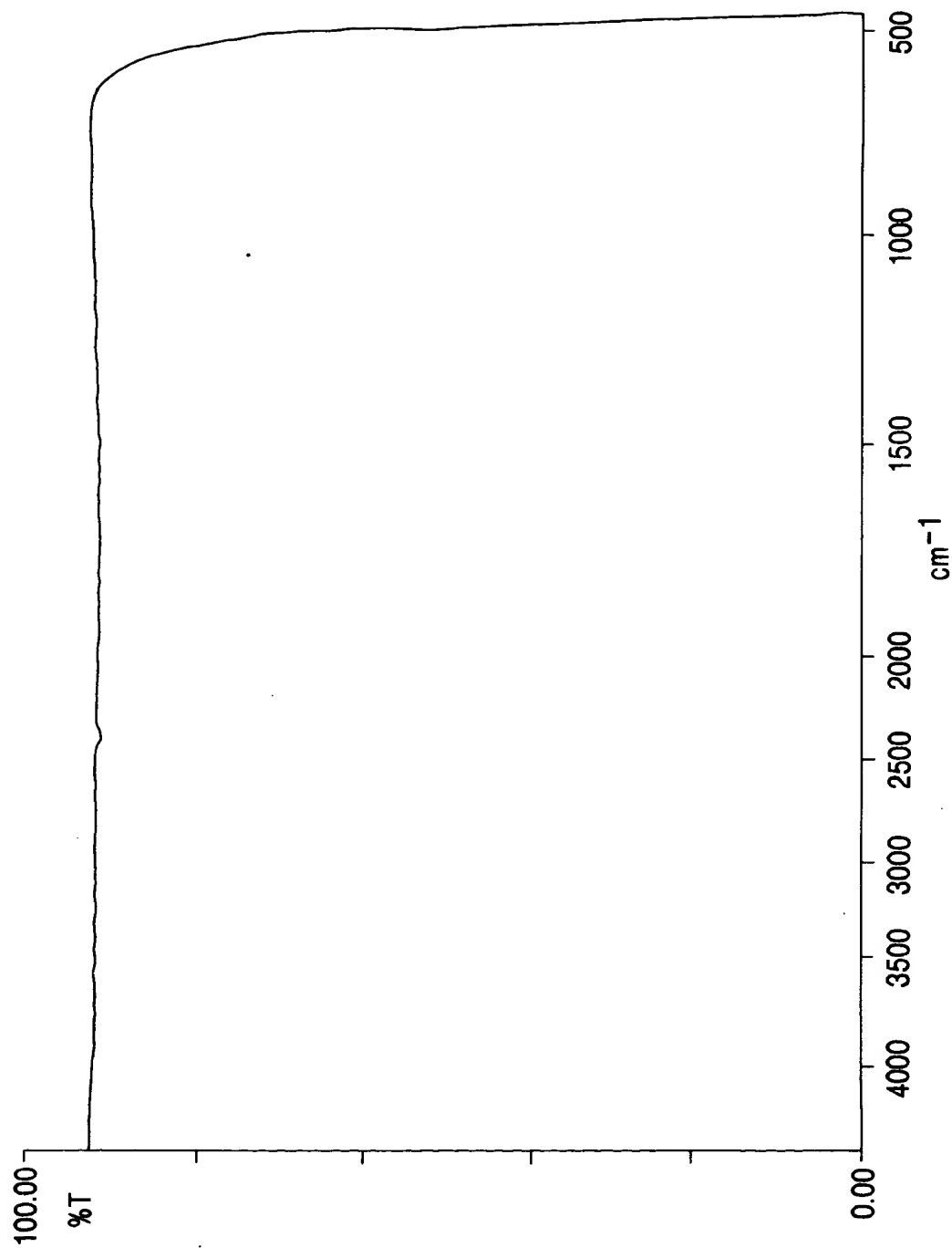
20161014 094456



SPECTRUM OF CLEAVED NaCl CRYSTAL SAMPLE  
SUPPORT MOUNTED IN 19MM APERTURE  
SAMPLE CARD

FIG. 8

2025-09-19 10:00



SPECTRUM OF CLEAVED KCL CRYSTAL SAMPLE  
SUPPORT MOUNTED IN 19MM APERTURE  
SAMPLE CARD

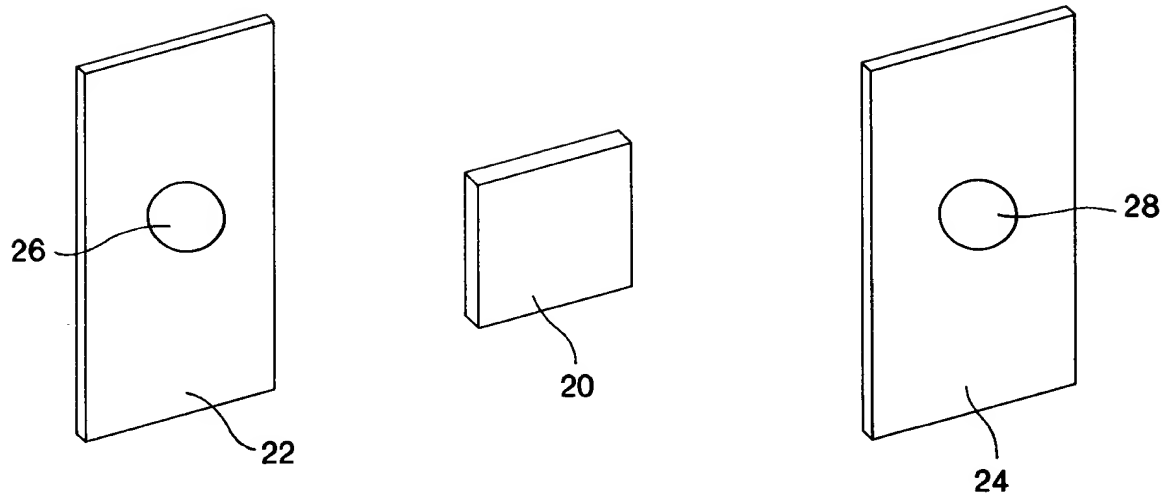
FIG. 9



The infrared spectrum displays transmittance (%T) on the y-axis (0.00 to 100.00) and wavenumber (cm⁻¹) on the x-axis (4000 to 500). Key features include a broad absorption band centered at approximately 3400 cm⁻¹, sharp peaks at 1520 and 1350 cm⁻¹, and a strong, characteristic peak at 750 cm⁻¹.

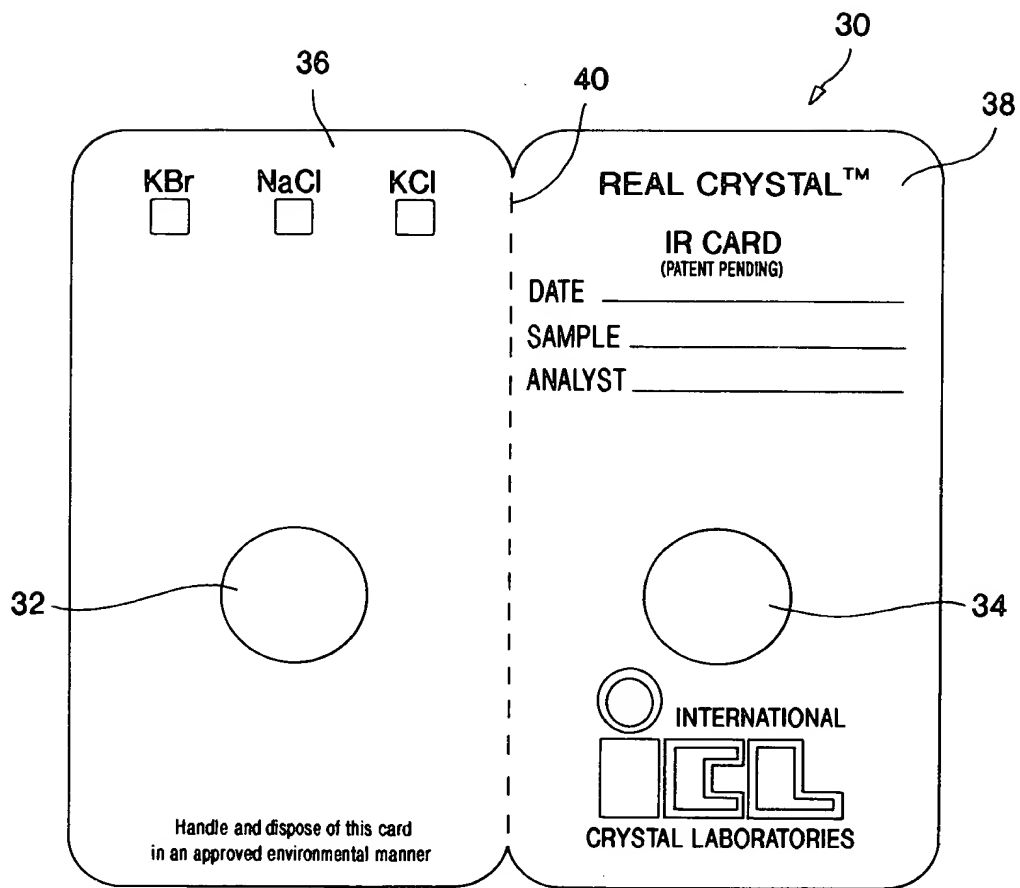
SPECTRUM OF CLEAVED KBR CRYSTAL SAMPLE  
SUPPORT MOUNTED IN 19MM APERTURE  
SAMPLE CARD

FIG. 10



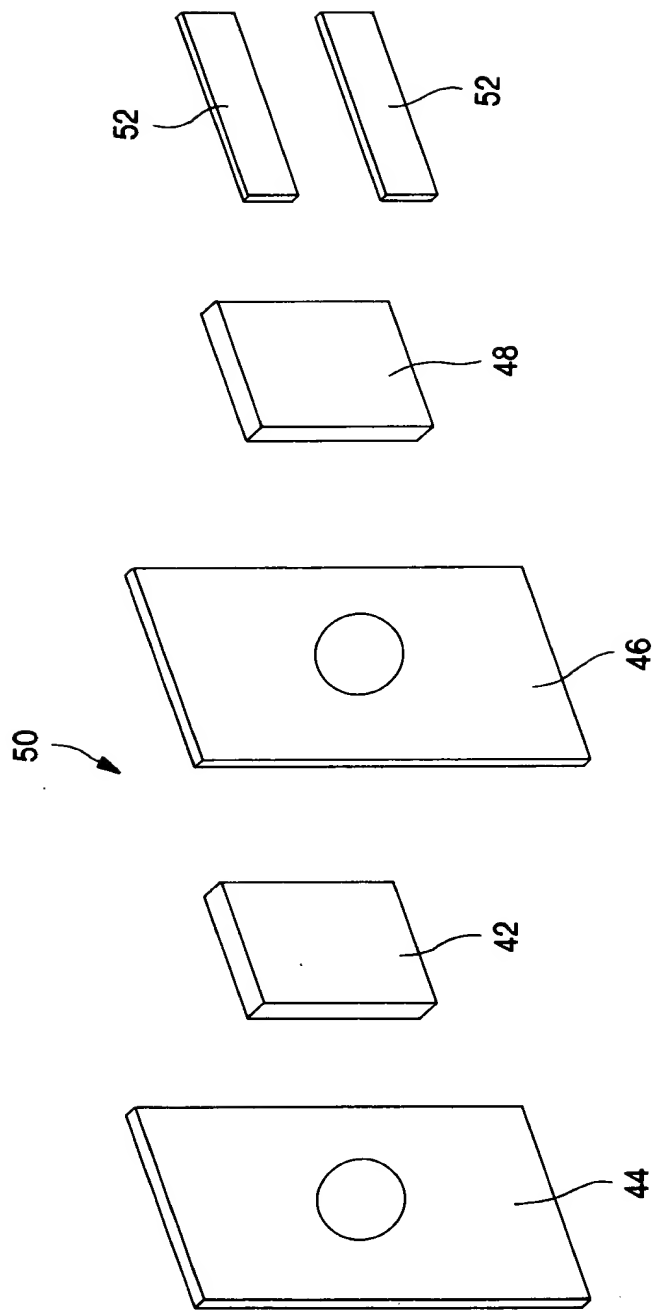
EXPLODED VIEW OF SAMPLE CARD WITH CLEAVED  
CRYSTAL WINDOW AS SAMPLE SUPPORT

FIG. 11



SAMPLE CARD FRAME WITH 2 APERTURES FOR FOLD OVER  
SANDWICHING OF SAMPLE SUPPORT WINDOW

FIG. 12



EXPLODED VIEW OF SAMPLE CARD WITH CLEAVED CRYSTAL  
AS SAMPLE SUPPORT AND WITH SECOND COVER WINDOW

FIG. 13

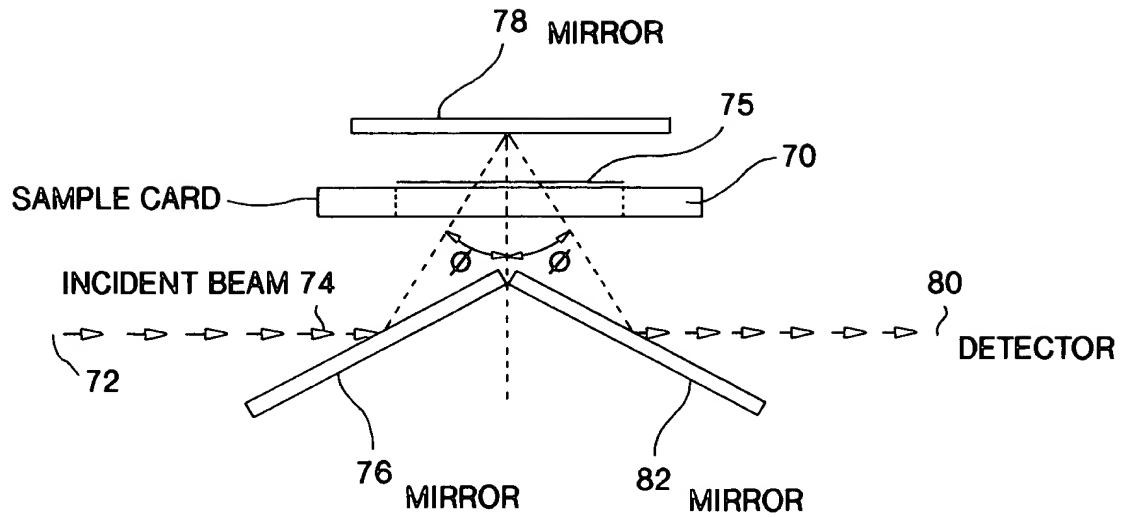
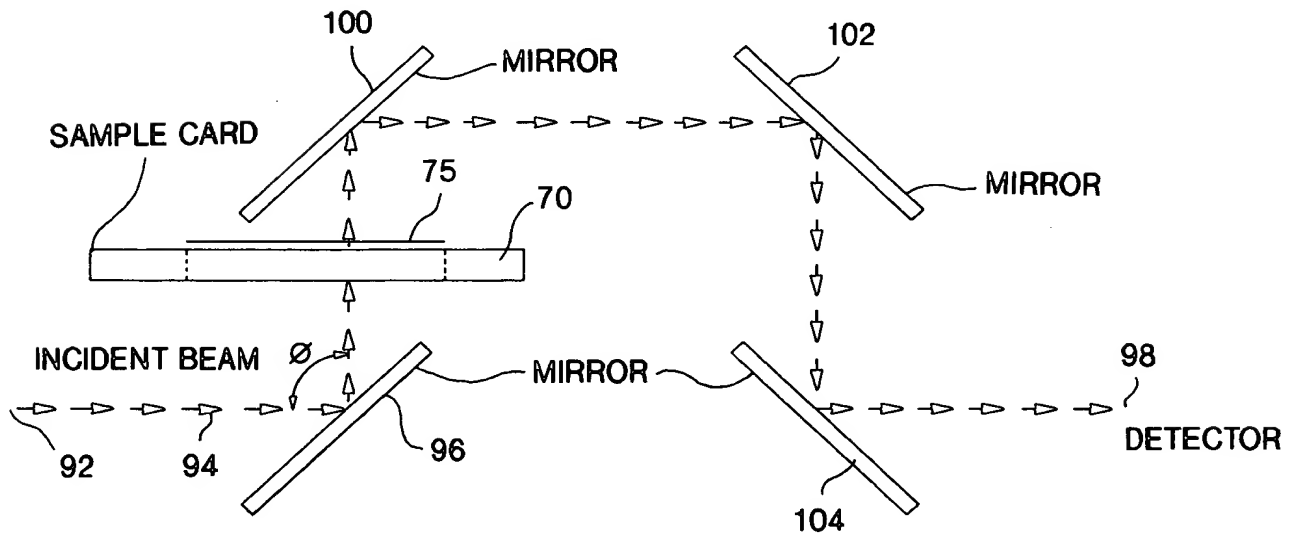


FIG. 14



USE OF SAMPLE CARD IN HORIZONTAL POSITION

FIG. 15

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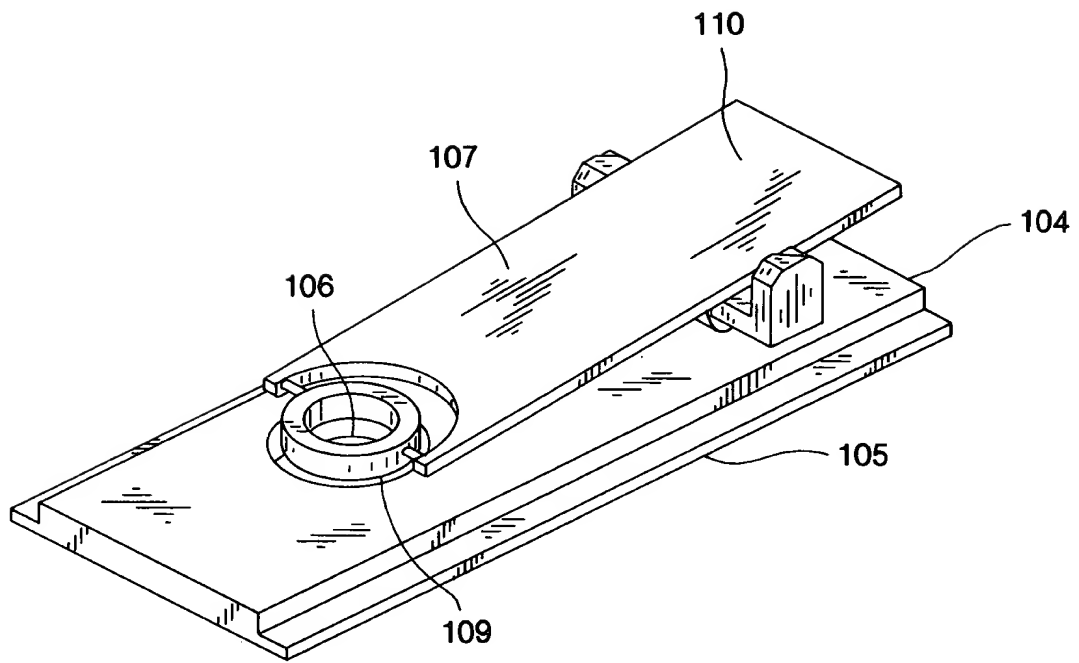


FIG. 16

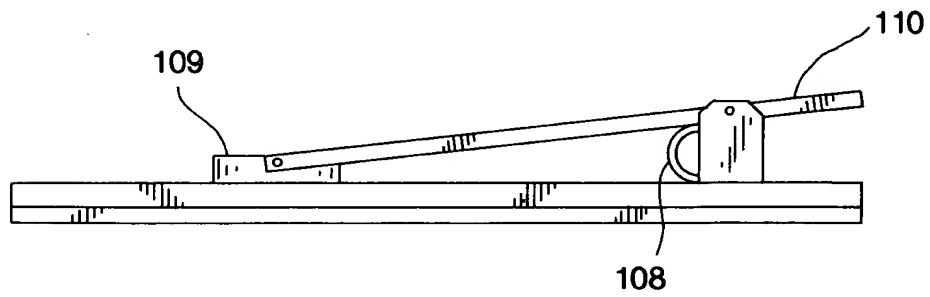


FIG. 17

2025-03-24 14:09:46

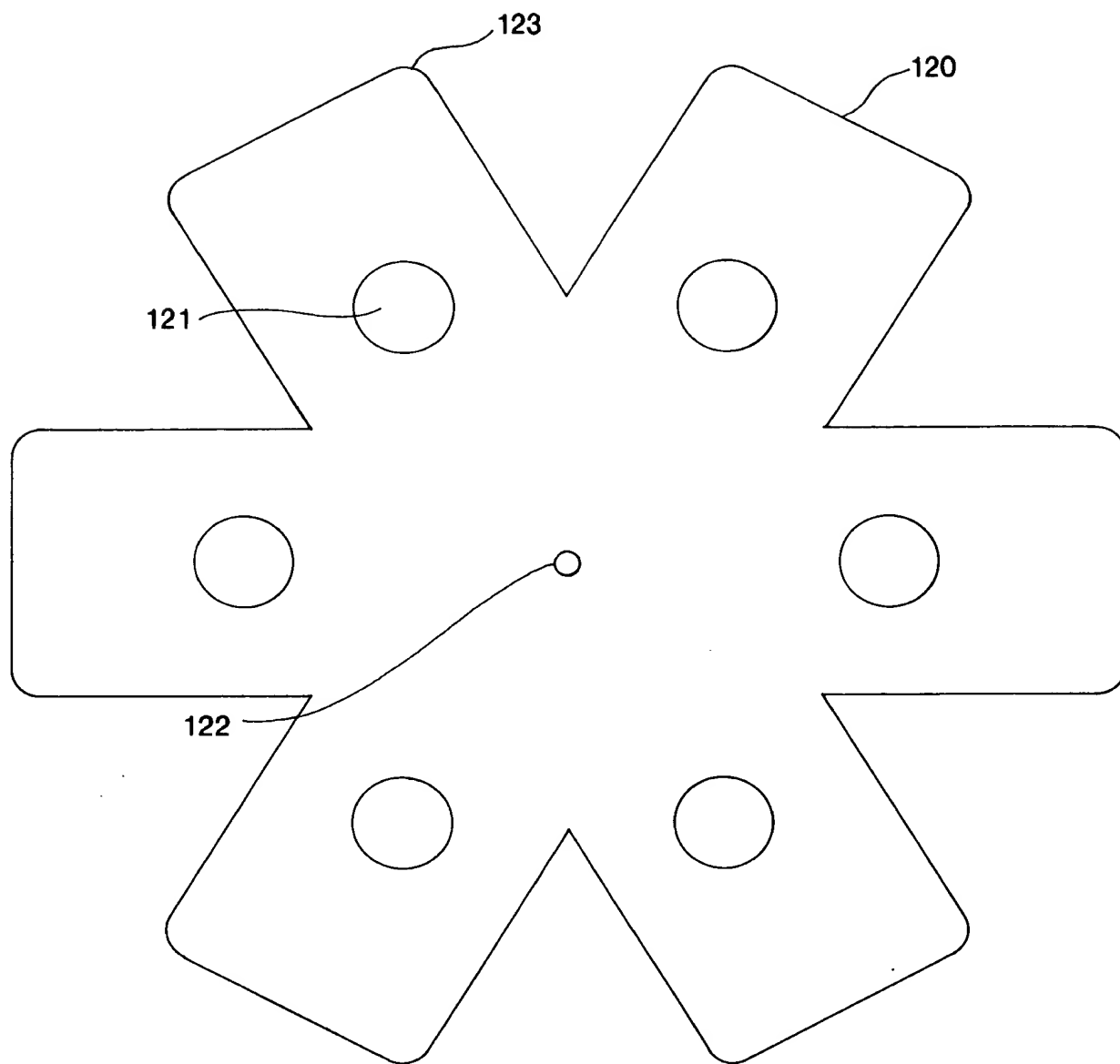


FIG. 18